Global Partnerships
University of Queensland

THE UNIVERSITY OF QUEENSLAND AUSTRALIA | CREATE CHANGE

Engineering Polymers for Sustainable Chemistry and Energy

Friday 13 November 2026 | 09:00–16:05

AIBN Level 1 Seminar Room · Building 75
Australian Institute for Bioengineering and Nanotechnology
The University of Queensland, St Lucia Campus, Brisbane

FREE REGISTRATION

09:00–09:10 Opening — Dr. Min Liu (The University of Queensland)

Session 1: Biomedical Polymers and Advanced Applications (Chair: Dr. Min Liu)

09:10–09:40 · Prof. Zachary Hudson
The University of British Columbia
Luminescent polymer nanoparticles for diagnostics and imaging

09:40–10:05 · Prof. Georgina Such
The University of Melbourne
Engineering more sustainable polymer delivery systems for applications in nucleic acid delivery

10:05–10:30 · Prof. Hang Ta
Griffith University
Materials based on poly(aspartic acid): From therapeutics and drug delivery to surface coatings

10:30–10:45 · Morning tea

Session 2: Polymer Synthesis, Structure and Self-Assembly (Chair: Prof. Zachary Hudson)

10:45–11:15 · Prof. Huibin Qiu
Shanghai Jiao Tong University
Living crystallization-driven self-assembly: From solution to interface (In memory of the pioneering work on living crystallization-driven self-assembly initiated by **Prof. Ian Manners**)

11:15–11:40 · Prof. Andrew K Whittaker
The University of Queensland
Using light to fashion polymers

11:40–12:10 · Dr. Changkui Fu (Future Fellow)
The University of Queensland
Advancing antifouling and antibacterial polymer brushes

12:10–13:10 · Networking lunch

Session 3: Advanced Polymer Engineering and Sustainable Technologies (Chair: A/Prof. Cheng Zhang)

13:10–13:35 · A/Prof. Timothy Scott
Monash University
The Utility of Photopolymerization in Membrane Science

13:35–14:00 · A/Prof. Hendrik Frisch
Queensland University of Technology
Making, breaking and linking polymers with light

14:00–14:25 · A/Prof. Qiang Fu
University of Technology Sydney
Engineering hydrogel polymer networks for sustainable water and energy technologies

14:25–14:40 · Afternoon tea

Session 4: Energy, Separation and Functional Interfaces (Chair: Prof. Huibin Qiu)

14:40–15:05 · Asst. Prof. Zhe Yang
The Hong Kong University of Science and Technology
Pressure driven membrane-based lithium extraction from salt lake

15:05–15:30 · A/Prof. Paul Shaw
The University of Queensland
Understanding the role of processing additives in organic solar cells

15:30–16:00 · A/Prof. Cheng Zhang
The University of Queensland
The benefits of controlled polymer structure in advanced applications

16:00–16:05 · Closing remarks
A/Prof. Cheng Zhang

Organizing committee: Dr. Min Liu (min.liu@uq.edu.au) | A/Prof. Cheng Zhang (c.zhang3@uq.edu.au)

Event details and free registration: https://polymer-engineer.com